

**Designation of Chrysidid Lectotypes in the Mocsáry
Collection at the Hungarian National Museum,
Budapest (Hymenoptera: Chrysididae)**

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Abstract.—Lectotypes of 105 species and subspecies described by A. Mocsáry found at the Hungarian National Museum are designated. Fifteen of these are from the chrysidid subfamily Elampinae and 90 from the subfamily Chrysidinae. Comments on Mocsáry's life and notes on collection of Chrysididae at the Museum are included.

In April–May of 1985 we visited the Hungarian National Museum in Budapest to study the Mocsáry collection of Chrysididae. We were ably assisted by hymenopterists Jëno Papp and Lajos Zombori.

Alexandro (Sandor) Mocsáry (1841–1915) contributed more than any other worker to our knowledge of Chrysididae. Born and educated in Nagyvarad, Hungary, he later became Abteilungsdirektor of the Hungarian National Museum, where he worked for 44 years. His first paper on chrysidids appeared in 1878 and his last in 1914. According to Viereck (1922), his bibliography comprises 178 titles and 2594 pages, mostly devoted to Chrysididae. He is best known for his "Monographia Chrysididarum Orbis Terrarum Universi" (1889), a work of monumental proportions. The chrysidid collection at Budapest is one of the five largest in the world, and probably the most important with respect to numbers of type specimens. We found it in good order, but were told that Mocsáry's assistant, Ludovici Biró, arranged the species and added "type" labels after 1915. Most specimens were correctly identified as original type series, but in some instances they have been mislabeled. This has necessitated careful comparison with original descriptions, and workers should be aware that some of the specimens from these type series have also found their way into other European collections. It is interesting to note that Mocsáry traveled very little, and his large accumulation of specimens came from others. For instance, Biró collected for him in New Guinea, the Greek Islands, and in southern U.S.S.R., and the many species from southern Africa were largely sent to him by Hans Brauns. Many of Mocsáry's species and subspecies were based on syntypes. Móczár (1964a, 1964b, 1965) selected lectotypes for species of chrysidids occurring in the Carpathian Basin. Here, we designate others in the Elampinae (L. D. French) and Chrysidinae (R. M. Bohart). Species are listed alphabetically and include their original citation. Correct generic placement follows each citation, and we have made no attempt to show species level synonymy.

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Elampinae

- Ellampus auratus gasperinii* Mocsáry, 1889:92. Lectotype female, Yugoslavia: Dalmatia. *Omalus*.
Ellampus chilensis Mocsáry, 1911:444. Lectotype female, Chile: Concepción. *Pseudolopyga*.
Ellampus herbstii Mocsáry, 1911:445. Lectotype male, Chile: Concepción. *Omalus*.
Ellampus imbecillus Mocsáry, 1889:98. Lectotype female, Turkmen S.S.R.: Pendgikent. *Omalus*.
Hedychrum marianum Mocsáry, 1911:450. Lectotype female, China.
Hedychrum punctigerum Mocsáry, 1909:2. Lectotype female, Kazakh S.S.R.: Mt. Karatau.
Hedychrum rutilans veterrimum Mocsáry, 1914:11. Lectotype male, Turkey: Mt. Ararat.
Hedychrum shiratiense Mocsáry, 1911:453. Lectotype female, Ethiopia: Katona, Shirati.
Hedychrum simile Mocsáry, 1889:157. Lectotype female, China ("borealis"): Ta-schian-sy.
Holopyga almasyana Mocsáry, 1911:445. Lectotype female, Kirgiz S.S.R.: Naryn. *Haba*.
Holopyga elegans Mocsáry, 1911:450. Lectotype female, Turkey: Izmir (Smyrna). *Hedychridium*.
Holopyga incensa Mocsáry, 1914:7. Lectotype female, U.S.S.R.: "Turkestan." *Hedychridium*.
Holopyga obscurata Mocsáry, 1902b:536. Lectotype female, South Africa: Cape Province, Algoa Bay. *Hedychridium*.
Holopyga punctatissima turkestanica Mocsáry, 1909:1. Lectotype male, Kazakh S.S.R.: Mt. Karatau.
Holopyga ujhelyiana Mocsáry, 1914:7. Lectotype female, Colombia: Atlántico, Baranquilla.

Chrysidinae

- Chrysis abdominalis* Mocsáry, 1912b:579. Lectotype female, Peru: Puno.
Chrysis acheron Mocsáry, 1913a:28. Lectotype female, "Asia Arch., Insula Key."
Chrysis angustula Mocsáry, 1908b:514. Lectotype female, South Africa: Cape Province, Willowmore.
Chrysis armata Mocsáry, 1889:187. Lectotype female, Brazil: Santa Catarina, Blumenau. *Caenochrysis*.
Chrysis asmarana Mocsáry, 1913a:16. Lectotype female, Ethiopia: Eritrea, Asmara.
Chrysis assabensis Mocsáry, 1912a:391. Lectotype female, Ethiopia: Eritrea, Assab.
Chrysis auromarginata Mocsáry, 1912a:376. Lectotype female, Tanzania: Dar-Es-Salaam. *Trichrysis*.
Chrysis biangulata Mocsáry, 1902b:544. Lectotype female, South Africa: Cape Province, Uitenhage. *Primeuchroeus*.
Chrysis bidenticulata Mocsáry, 1914:289. Lectotype male, Philippine Islands: Luzon, Los Banos. *Trichrysis*.
Chrysis biroi Mocsáry, 1899:483. Lectotype female, Papua New Guinea: Stephensort, Astrolabe Bay. *Primeuchroeus*.
Chrysis breviceps Mocsáry, 1914:23. Lectotype female, Ethiopia: Eritrea, Keren.
Chrysis bucculenta Mocsáry, 1908a:262. Lectotype female, Madagascar: Antongil. *Chrysidea*.
Chrysis buddhae Mocsáry, 1913a:25. Lectotype male, Taiwan: Takao.
Chrysis callizona Mocsáry, 1904:411. Lectotype male, South Africa: Cape Province, Willowmore.
Chrysis chalcopyga Mocsáry, 1914:48. Lectotype female, U.S.A.: "Colorado."
Chrysis colonialis Mocsáry, 1908b:518. Lectotype male, South Africa: Cape Province.
Chrysis concinna Mocsáry, 1902b:560. Lectotype female, South Africa: Orange Free State, Bothaville.
Chrysis concolor Mocsáry, 1912b:586. Lectotype male, U.S.S.R.: eastern Siberia, Raddefka.
Chrysis confinis Mocsáry, 1912a:404. Lectotype female, South Africa: Transvaal, Shilouvane.
Chrysis consobrina Mocsáry, 1889:458. Lectotype female, U.S.S.R.: "Transcaspia."
Chrysis costaricana Mocsáry, 1912b:567. Lectotype female, Costa Rica: San José.
Chrysis csikiana Mocsáry, 1912a:406. Lectotype male, U.S.S.R.: western Siberia, "Altai."
Chrysis cubensis Mocsáry, 1913a:32. Lectotype female, Cuba: Guantánamo.
Chrysis cuprata Mocsáry, 1890:64. Lectotype female, Greece ("Graecia").
Chrysis cyanescens Mocsáry, 1913a:1. Lectotype male, Asia Minor: Bimbirkilisse.
Chrysis duckei Mocsáry, 1902a:343. Lectotype female, Brazil: Pará (*Neochrysis*).
Chrysis elevata Mocsáry, 1913a:4. Lectotype male, Ethiopia: Eritrea, Asmara. *Praestochrysis*.
Chrysis ellampiformis Mocsáry, 1914:13. Lectotype female, Costa Rica: San José. *Caenochrysis*.
Chrysis erigone Mocsáry, 1889:239. Lectotype female, U.S.S.R.: "Kaukasus." *Chrysur*.
Chrysis exsecata Mocsáry, 1908b:509. Lectotype male, South Africa: Cape Province.
Chrysis femorata Mocsáry, 1912a:385. Lectotype female, Ethiopia: Eritrea, Asmara.
Chrysis formosana Mocsáry, 1912a:380. Lectotype female, Taiwan: Takao. *Trichrysis*.
Chrysis gazella Mocsáry, 1904:407. Lectotype female, South Africa: Cape Province, Willowmore.
Chrysis heliaca Mocsáry, 1902b:551. Lectotype female, South Africa: Orange Free State, Bothaville.

- Chrysis hemipyrrha* Mocsáry, 1889:488. Lectotype female, "S. Celebes: Patuhuang."
- Chrysis horvathi* Mocsáry, 1912b:591. Lectotype female, Turkey: Ismir ("Smyrna").
- Chrysis hyalinipennis* Mocsáry, 1912a:392. Lectotype female, Ethiopia: Eritrea, Assab.
- Chrysis inimica* Mocsáry, 1902b:552. Lectotype female, South Africa: Cape Province, Uitenhage.
- Chrysis inquisitor* Mocsáry, 1913a:31. Lectotype female, Australia: Queensland, Cooktown.
- Chrysis inseriata* Mocsáry, 1902a:342. Lectotype female, Brazil: Pará. *Neochrysis*.
- Chrysis insolita* Mocsáry, 1913a:10. Lectotype female, Ethiopia: Eritrea, Takkeseh.
- Chrysis japonica* Mocsáry, 1889:490. Lectotype male, Japan.
- Chrysis kerensis* Mocsáry, 1912a:387. Lectotype male, Ethiopia: Eritrea, Keren.
- Chrysis kirbyana* Mocsáry, 1912a:402. Lectotype female, South Africa: Transvaal, Potschestrom.
- Chrysis korbiana* Mocsáry, 1912a:412. Lectotype female, Uzbek S.S.R.: Gouldscha, Fergana.
- Chrysis laminata* Mocsáry, 1902b:568. Lectotype female, South Africa: Cape Province, Sunday River.
- Chrysis lepida* Mocsáry, 1889:278. Lectotype female, U.S.S.R.: "Kaukasus," Jerivan ("Erivan").
- Chrysis leucocheila* Mocsáry, 1889:408. Lectotype female, "Mexico." *Ipsiura*.
- Chrysis leucostigma* Mocsáry, 1889:410. Lectotype female, Brazil: Amazonas, Fonte Boa. *Exochrysis*.
- Chrysis longicollis* Mocsáry, 1902b:556. Lectotype female, South Africa: Cape Province ("Capland").
- Chrysis mongolica* Mocsáry, 1914:24. Lectotype female, "Mongolia." *Trichrysis*.
- Chrysis montivaga* Mocsáry, 1912a:409. Lectotype male, U.S.S.R.: "Turkestan," Mt. Alexander.
- Chrysis namaquensis* Mocsáry, 1914:42. Lectotype male, South Africa: Cape Province ("Caffreria, Namaqualand").
- Chrysis natalica* Mocsáry, 1913a:2. Lectotype female, South Africa: Natal, Howick. *Praestochrysis*.
- Chrysis nigeriaca* Mocsáry, 1913a:1. Lectotype female, Tanzania: Shonga. *Praestochrysis*.
- Chrysis nitidularia* Mocsáry, 1912a:411. Lectotype male, Kazakh S.S.R.: Narynkol.
- Chrysis papuana* Mocsáry, 1889:493 (*lincea* ssp.). Lectotype male, Papua New Guinea: Stephensort, Astrolabe Bay.
- Chrysis papuana* Mocsáry, 1889:454. Lectotype female, Papua New Guinea: Stephensort, Astrolabe Bay. *Primeuchroeus*.
- Chrysis partita* Mocsáry, 1889:492. Lectotype female, Papua New Guinea: Stephensort, Astrolabe Bay.
- Chrysis pauperata* Mocsáry, 1908b:519. Lectotype male, South Africa: Transvaal, Lichtenburg.
- Chrysis perezi* Mocsáry, 1889:461. Lectotype male, Algeria: Bône.
- Chrysis pleuralis* Mocsáry, 1904:405. Lectotype female, South Africa: Cape Province, Willowmore. *Spintharina*.
- Chrysis pleuretica* Mocsáry, 1912b:582. Lectotype male, Argentina: Mendoza.
- Chrysis polychroma* Mocsáry, 1908b:509. Lectotype female, South Africa: Cape Province, Willowmore. *Spintharina*.
- Chrysis porphyrea* Mocsáry, 1889:284. Lectotype female, Greece: Morea Peninsula, Cumani.
- Chrysis porphyrophana* Mocsáry, 1890:64. Lectotype female, South Africa: Cape Province, "Cap.b.sp."
- Chrysis practicola* Mocsáry, 1914:50. Lectotype female, U.S.A.: Texas, Fedor.
- Chrysis quadridens* Mocsáry, 1912b:569. Lectotype female, Costa Rica: San José.
- Chrysis regalis* Mocsáry, 1912a:408. Lectotype male, U.S.S.R.: "Turkestan," Mt. Alexander.
- Chrysis relegatus* Mocsáry, 1911:469. Lectotype male, Australia: New South Wales, Sydney. *Primeuchroeus*.
- Chrysis ribbei* Mocsáry, 1889:524. Lectotype female, "S. Celebes: Bonthain." *Praestochrysis*.
- Chrysis rubricata* Mocsáry, 1902a:340. Lectotype male, Egypt: Cairo.
- Chrysis rubroviolacea* Mocsáry, 1913a:20. Lectotype male, South Africa: Cape Province, Willowmore.
- Chrysis salisburyana* Mocsáry, 1914:37. Lectotype female (not male), Zimbabwe: Salisbury.
- Chrysis satrapes* Mocsáry, 1913a:19. Lectotype female, Ethiopia: Shirati.
- Chrysis schencklingi* Mocsáry, 1913b:618. Lectotype female, Taiwan: Anping.
- Chrysis scutata* Mocsáry, 1912a:382. Lectotype female, Tanzania: Lukuledi.
- Chrysis secernenda* Mocsáry, 1912a:376. Lectotype male, Uzbek S.S.R.: Gouldscha, Ferghana. *Trichrysis*.
- Chrysis sejuncta* Mocsáry, 1914:51. Lectotype female, U.S.A.: Missouri.
- Chrysis semiviolacea* Mocsáry, 1889:484. Lectotype female, Algeria.
- Chrysis somalina* Mocsáry, 1889:512. Lectotype male, Somalia.
- Chrysis spinicollis* Mocsáry, 1912b:580. Lectotype male, Argentina: Salta.
- Chrysis szalayana* Mocsáry, 1912a:397. Lectotype male, Ethiopia: Katona.

- Chrysis thakur* Mocsáry, 1913a:22. Lectotype male, Burma: Tenasserim.
Chrysis transmutata Mocsáry, 1914:26. Lectotype female, Burma: Tenasserim. *Trichrysis*.
Chrysis transvaalensis Mocsáry, 1908b:520. Lectotype male, South Africa: Transvaal, Lichtenburg.
Chrysis triangulifera Mocsáry, 1890:55. Lectotype female, Brazil: Piauhy. *Caenochrysis*.
Chrysis turneri Mocsáry, 1914:22. Lectotype female, Australia: Tasmania, Eaglehawk Neck. *Primeuchroeus*.
Chrysis variipes Mocsáry, 1911:467. Lectotype male, India: Maharashtra, Lonauli.
Chrysis vicaria Mocsáry, 1913a:11. Lectotype male, Taiwan: Taihorina.
Chrysis wollmanni Mocsáry, 1909:4. Lectotype female, Kazakh S.S.R.: Baikagum near Djulek.

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